

Claim 24, line 1, change "any of claims 19-23" to --claim 19--.  
 Claim 26, line 1, change "any of claims 19-25" to --claim 19--.  
 Claim 27, line 1, change "any of claims 19-25" to --claim 19--.  
 Claim 28, line 1, change "any of claims 19-25" to --claim 19--.  
 Claim 29, line 1, change "any of claims 19-25" to --claim 19--.  
 Claim 30, line 3, change "any of the preceding claims" to --claim 1--.  
 Claim 33, line 1, delete "claim 31 or".  
 Claim 37, line 1, change "any of claims 31-36" to --claim 32--.  
 Claim 38, line 1, change "any of claims 31-37" to --claim 32--.

Kindly cancel claims 39-65 further to their being the subject of a continuing application.

Claim 66, line 11, change "characterized in that" to --wherein--.  
 Claim 68, line 1, delete "or claim 67".  
 Claim 71, line 1, change "any of claims 66-70" to --claim 70--.  
 Claim 73, line 15, change "characterized in that" to --wherein--.  
 Claim 75, line 1, change "any of claims 66-74" to --claim 73--.  
 Claim 77, line 12, change "characterized in that" to --wherein--.  
 Claim 78, line 1, change "any of claims 75-77" to --claim 77--.  
 Claim 79, line 1, change "any of claims 75-78" to --claim 77--.  
 Claim 83, line 1, change "any of claims 80-82" to --claim 80--.  
 Claim 84, line 9, change "characterized in that" to --wherein--.  
 Claim 88, line 1, delete "or claim 86".  
 Claim 91, line 1, delete "or claim 90".  
 Claim 94, line 1, delete "or claim 93".  
 Claim 95, line 1, change "any of claims 92-94" to --claim 92--.  
 Claim 96, line 1, change "any of claims 92-95" to --claim 92--.  
 Claim 98, line 1, delete "claim 96 or".  
 Claim 101, line 1, delete "or claim 100".

Kindly cancel claim 103 further to its being the subject of a continuing application.

Kindly add the following new claims:

--105. Apparatus according to claim 66 wherein the scanner comprises:

a scan device that receives a beam along a first axis and periodically rotates the beam axis to form a rotating beam; and

an optical system that translates the periodic rotation into periodic lineal scanning of the beam,

wherein the first and second beams are both scanned utilizing the scan device and the optical system.

A<sup>2</sup>  
106. Apparatus according to claim 105 wherein the power of said beam varies as the beam axis rotates, wherein the optical system includes a quasi f-θ lens system that varies the lineal speed of the linear scanning to compensate for the power variations.

107. Apparatus according to claim 66 and including a marked scale upon which the second beam impinges, such that the second beam is reflected therefrom to form a modulated reflected beam.

108. Apparatus according to claim 107 wherein the second beam impinges the scale at an angle to its surface, such that the modulated reflected beam is reflected along an axis, different from that of the second beam.

109. Apparatus according to claim 70 and including a marked scale upon which the second beam impinges, such that the second beam is reflected therefrom to form a modulated reflected beam.

110. Apparatus according to claim 109 wherein the second beam impinges the scale at an angle to its surface, such that the modulated reflected beam is reflected along an axis, different from that of the second beam.--

#### REMARKS

This application is the US national stage of PCT/EP99/01764 which was published as WO 00/02424. The above amendments relate to the claims originally filed with the application and published as claims 1-104 in the publication.